RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/553, 869_
Source: _PCT_
Date Processed by STIC: _11/02/2005_

ENTERED

PCT

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 3 <110> APPLICANT: Borean Pharma A/S
 5 <120> TITLE OF INVENTION: Cleavage of fusion proteins using Granzyme B protease
 7 <130> FILE REFERENCE: 3106
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/553,869
C--> 9 <141> CURRENT FILING DATE: 2005-10-21
 9 <160> NUMBER OF SEQ ID NOS: 57
11 <170> SOFTWARE: PatentIn version 3.2
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 243
15 <212> TYPE: PRT
16 <213> ORGANISM: Artificial
18 <220> FEATURE:
19 <223> OTHER INFORMATION: pro-IEGR-GrB-H6
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28              20                  25                  30
31 Leu Lys Arg Cys Gly Gly Phe Leu Ile Gln Asp Asp Phe Val Leu Thr
32          35                  40                  45
35 Ala Ala His Cys Trp Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His
36      50                  55                  60
39 Asn Ile Lys Glu Gln Glu Pro Thr Gln Gln Phe Ile Pro Val Lys Arg
40 65                  70                  75                  80
43 Pro Ile Pro His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile
44              85                  90                  95
47 Met Leu Leu Gln Leu Glu Arg Lys Ala Lys Arg Thr Arg Ala Val Gln
48              100                 105                 110
51 Pro Leu Arg Leu Pro Ser Asn Lys Ala Gln Val Lys Pro Gly Gln Thr
52          115                 120                 125
55 Cys Ser Val Ala Gly Trp Gly Gln Thr Ala Pro Leu Gly Lys His Ser
56      130                 135                 140
59 His Thr Leu Gln Glu Val Lys Met Thr Val Gln Glu Asp Arg Lys Cys
60 145                 150                 155                 160
63 Glu Ser Asp Leu Arg His Tyr Tyr Asp Ser Thr Ile Glu Leu Cys Val
64              165                 170                 175
67 Gly Asp Pro Glu Ile Lys Lys Thr Ser Phe Lys Gly Asp Ser Gly Gly
68              180                 185                 190
71 Pro Leu Val Cys Asn Lys Val Ala Gln Gly Ile Val Ser Tyr Gly Arg
72          195                 200                 205
75 Asn Asn Gly Met Pro Pro Arg Ala Cys Thr Lys Val Ser Ser Phe Val
76      210                 215                 220
79 His Trp Ile Lys Lys Thr Met Lys Arg Tyr Leu Asn Ser His His His
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90 <213> ORGANISM: Artificial
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93 <223> OTHER INFORMATION: pro-IEPD-GrB-H6
95 <400> SEQUENCE: 2
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101 His Ser Arg Pro Tyr Met Ala Tyr Leu Met Ile Trp Asp Gln Lys Ser
102             20                  25               30
105 Leu Lys Arg Cys Gly Gly Phe Leu Ile Gln Asp Asp Phe Val Leu Thr
106          35                  40               45
109 Ala Ala His Cys Trp Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His
110       50                  55               60
113 Asn Ile Lys Glu Gln Glu Pro Thr Gln Gln Phe Ile Pro Val Lys Arg
114 65                  70                  75               80
117 Pro Ile Pro His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile
118             85                  90               95
121 Met Leu Leu Gln Leu Glu Arg Lys Ala Lys Arg Thr Arg Ala Val Gln
122             100                 105              110
125 Pro Leu Arg Leu Pro Ser Asn Lys Ala Gln Val Lys Pro Gly Gln Thr
126          115                 120              125
129 Cys Ser Val Ala Gly Trp Gly Gln Thr Ala Pro Leu Gly Lys His Ser
130       130                 135              140
133 His Thr Leu Gln Glu Val Lys Met Thr Val Gln Glu Asp Arg Lys Cys
134 145                 150                 155              160
137 Glu Ser Asp Leu Arg His Tyr Tyr Asp Ser Thr Ile Glu Leu Cys Val
138             165                 170              175
141 Gly Asp Pro Glu Ile Lys Lys Thr Ser Phe Lys Gly Asp Ser Gly Gly
142             180                 185              190
145 Pro Leu Val Cys Asn Lys Val Ala Gln Gly Ile Val Ser Tyr Gly Arg
146          195                 200              205
149 Asn Asn Gly Met Pro Pro Arg Ala Cys Thr Lys Val Ser Ser Phe Val
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164 <213> ORGANISM: Artificial
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RAW SEQUENCE LISTING   DATE: 11/02/2005
PATENT APPLICATION: **US/10/553,869** TIME: 09:43:36

Input Set : **A:\16293PCT00 - Sequence listing GrB.ST25.txt**
Output Set: **N:\CRF4\11022005\J553869.raw**

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179 Leu Lys Arg Cys Gly Gly Phe Leu Ile Gln Asp Asp Phe Val Leu Thr
180          35                  40                  45
183 Ala Ala His Cys Trp Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His
184      50                  55                  60
187 Asn Ile Lys Glu Gln Glu Pro Thr Gln Gln Phe Ile Pro Val Lys Arg
188 65                  70                  75                  80
191 Pro Ile Pro His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile
192              85                  90                  95
195 Met Leu Leu Gln Leu Glu Arg Lys Ala Lys Arg Thr Arg Ala Val Gln
196              100                 105                 110
199 Pro Leu Arg Leu Pro Ser Asn Lys Ala Gln Val Lys Pro Gly Gln Thr
200          115                 120                 125
203 Cys Ser Val Ala Gly Trp Gly Gln Thr Ala Pro Leu Gly Lys His Ser
204      130                 135                 140
207 His Thr Leu Gln Glu Val Lys Met Thr Val Gln Glu Asp Arg Lys Cys
208 145                 150                 155                 160
211 Glu Ser Asp Leu Arg His Tyr Tyr Asp Ser Thr Ile Glu Leu Cys Val
212              165                 170                 175
215 Gly Asp Pro Glu Ile Lys Lys Thr Ser Phe Lys Gly Asp Ser Gly Gly
216          180                 185                 190
219 Pro Leu Val Cys Asn Lys Val Ala Gln Gly Ile Val Ser Tyr Gly Arg
220          195                 200                 205
223 Asn Asn Gly Met Pro Pro Arg Ala Cys Thr Lys Val Ser Ser Phe Val
224      210                 215                 220
227 His Trp Ile Lys Lys Thr Met Lys Arg Tyr Leu Asn Ser His His His
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236 <211> LENGTH: 243
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238 <213> ORGANISM: Artificial
240 <220> FEATURE:
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250              20                  25                  30
253 Leu Lys Arg Cys Gly Gly Phe Leu Ile Gln Asp Asp Phe Val Leu Thr
254          35                  40                  45
257 Ala Ala His Cys Trp Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His
258      50                  55                  60
261 Asn Ile Lys Glu Gln Glu Pro Thr Gln Gln Phe Ile Pro Val Lys Arg
262 65                  70                  75                  80
265 Pro Ile Pro His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile
266              85                  90                  95
269 Met Leu Leu Gln Leu Glu Arg Lys Ala Lys Arg Thr Arg Ala Val Gln
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PATENT APPLICATION: US/10/553,869   TIME: 09:43:36

Input Set : A:\16293PCT00 - Sequence listing GrB.ST25.txt
Output Set: N:\CRF4\11022005\J553869.raw

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273 Pro Leu Arg Leu Pro Ser Asn Lys Ala Gln Val Lys Pro Gly Gln Thr
274         115              120              125
277 Cys Ser Val Ala Gly Trp Gly Gln Thr Ala Pro Leu Gly Lys His Ser
278     130              135              140
281 His Thr Leu Gln Glu Val Lys Met Thr Val Gln Glu Asp Arg Lys Cys
282 145              150              155              160
285 Glu Ser Asp Leu Arg His Tyr Tyr Asp Ser Thr Ile Glu Leu Cys Val
286              165              170              175
289 Gly Asp Pro Glu Ile Lys Lys Thr Ser Phe Lys Gly Asp Ser Gly Gly
290         180              185              190
293 Pro Leu Val Cys Asn Lys Val Ala Gln Gly Ile Val Ser Tyr Gly Arg
294     195              200              205
297 Asn Asn Gly Met Pro Pro Arg Ala Ser Thr Lys Val Ser Ser Phe Val
298     210              215              220
301 His Trp Ile Lys Lys Thr Met Lys Arg Tyr Leu Asn Ser His His His
302 225              230              235              240
305 His His His
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310 <211> LENGTH: 243
311 <212> TYPE: PRT
312 <213> ORGANISM: Artificial
314 <220> FEATURE:
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317 <400> SEQUENCE: 5
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323 His Ser Arg Pro Tyr Met Ala Tyr Leu Met Ile Trp Asp Gln Lys Ser
324         20              25              30
327 Leu Lys Arg Cys Gly Gly Phe Leu Ile Gln Asp Asp Phe Val Leu Thr
328         35              40              45
331 Ala Ala His Cys Trp Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His
332     50              55              60
335 Asn Ile Lys Glu Gln Glu Pro Thr Gln Gln Phe Ile Pro Val Lys Arg
336 65              70              75              80
339 Pro Ile Pro His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile
340              85              90              95
343 Met Leu Leu Gln Leu Glu Arg Lys Ala Lys Arg Thr Arg Ala Val Gln
344         100              105              110
347 Pro Leu Arg Leu Pro Ser Asn Lys Ala Gln Val Lys Pro Gly Gln Thr
348         115              120              125
351 Cys Ser Val Ala Gly Trp Gly Gln Thr Ala Pro Leu Gly Lys His Ser
352     130              135              140
355 His Thr Leu Gln Glu Val Lys Met Thr Val Gln Glu Asp Arg Lys Cys
356 145              150              155              160
359 Glu Ser Asp Leu Arg His Tyr Tyr Asp Ser Thr Ile Glu Leu Cys Val
360              165              170              175
363 Gly Asp Pro Glu Ile Lys Lys Thr Ser Phe Lys Gly Asp Ser Gly Gly
364         180              185              190
```

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367 Pro Leu Val Cys Asn Lys Val Ala Gln Gly Ile Val Ser Tyr Gly Arg
368         195             200             205
371 Asn Asn Gly Met Pro Pro Arg Ala Ala Thr Lys Val Ser Ser Phe Val
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384 <211> LENGTH: 243
385 <212> TYPE: PRT
386 <213> ORGANISM: Artificial
388 <220> FEATURE:
389 <223> OTHER INFORMATION: pro-IEPD-GrB-H6 C228T
391 <400> SEQUENCE: 6
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398         20              25              30
401 Leu Lys Arg Cys Gly Gly Phe Leu Ile Gln Asp Asp Phe Val Leu Thr
402         35              40              45
405 Ala Ala His Cys Trp Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His
406     50              55              60
409 Asn Ile Lys Glu Gln Glu Pro Thr Gln Gln Phe Ile Pro Val Lys Arg
410 65              70              75              80
413 Pro Ile Pro His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile
414             85              90              95
417 Met Leu Leu Gln Leu Glu Arg Lys Ala Lys Arg Thr Arg Ala Val Gln
418         100             105             110
421 Pro Leu Arg Leu Pro Ser Asn Lys Ala Gln Val Lys Pro Gly Gln Thr
422         115             120             125
425 Cys Ser Val Ala Gly Trp Gly Gln Thr Ala Pro Leu Gly Lys His Ser
426     130             135             140
429 His Thr Leu Gln Glu Val Lys Met Thr Val Gln Glu Asp Arg Lys Cys
430 145             150             155             160
433 Glu Ser Asp Leu Arg His Tyr Tyr Asp Ser Thr Ile Glu Leu Cys Val
434             165             170             175
437 Gly Asp Pro Glu Ile Lys Lys Thr Ser Phe Lys Gly Asp Ser Gly Gly
438         180             185             190
441 Pro Leu Val Cys Asn Lys Val Ala Gln Gly Ile Val Ser Tyr Gly Arg
442         195             200             205
445 Asn Asn Gly Met Pro Pro Arg Ala Thr Thr Lys Val Ser Ser Phe Val
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458 <211> LENGTH: 243
459 <212> TYPE: PRT
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/02/2005
PATENT APPLICATION: **US/10/553,869** TIME: 09:43:37

Input Set : **A:\16293PCT00 - Sequence listing GrB.ST25.txt**
Output Set: **N:\CRF4\11022005\J553869.raw**

<u>Invalid <213> Response:</u>
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

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Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57

VERIFICATION SUMMARY
DATE: 11/02/2005
PATENT APPLICATION: US/10/553,869
TIME: 09:43:37

Input Set : **A:\16293PCT00 - Sequence listing GrB.ST25.txt**
Output Set: **N:\CRF4\11022005\J553869.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date